

ISO 13585:2021-12 (E)

Brazing - Qualification testing of brazers and brazing operators

| Contents | | Page |
|-----------------|--|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 2 |
| 4 | Symbols and abbreviated terms | 3 |
| 5 | Essential variables and range of qualification | 4 |
| 5.1 | General | 4 |
| 5.2 | Brazing process | 5 |
| 5.3 | Brazer qualification | 5 |
| 5.3.1 | Product type | 5 |
| 5.3.2 | Type of joint | 5 |
| 5.3.3 | Parent material group(s) | 5 |
| 5.3.4 | Filler metals and brazing filler application | 6 |
| 5.3.5 | Dimensions | 6 |
| 5.3.6 | Filler metal flow direction | 7 |
| 5.4 | Brazing operator qualification | 7 |
| 5.4.1 | Type of equipment | 7 |
| 5.4.2 | Filler metals and brazing filler application | 7 |
| 6 | Examination and testing | 7 |
| 6.1 | Supervision | 7 |
| 6.2 | Brazing conditions | 8 |
| 6.3 | Test piece | 8 |
| 6.4 | Assessment of work pieces | 8 |
| 6.5 | Extent of testing | 8 |
| 6.6 | Visual testing | 8 |
| 6.7 | Non-destructive testing | 9 |
| 6.8 | Destructive testing | 9 |
| 6.9 | Additional examination and testing | 9 |
| 7 | Acceptance requirements for test pieces | 9 |
| 8 | Re-tests | 9 |
| 9 | Period of validity | 10 |
| 9.1 | Initial qualification | 10 |
| 9.2 | Prolongation | 10 |
| 10 | Certificate | 10 |
| 11 | Designation | 11 |
| | Annex A (informative) Quality requirements for brazing | 12 |
| | Annex B (informative) Brazer qualification test certificate | 13 |
| | Annex C (informative) Brazing operator qualification test certificate | 15 |

| | |
|--|-----------|
| Annex D (informative) Other non-essential variables | 16 |
| Annex E (normative) Material grouping system | 17 |
| Annex F (informative) Examples of test pieces | 19 |
| Bibliography | 21 |